

THE COUNCIL FOR TOBACCO RESEARCH - U.S.A., INC.

COMMITTEE:

Dr. Andervont
Dr. Huebner
Dr. Sommers

110 EAST 59TH STREET
NEW YORK, N. Y. 10022

Application For Research Grant

OCT 2 1972

Date: September 26, 1972

1. Name of Investigator(s): (include Title and Degrees)

Victor Milstein, Ph.D., Psychophysiological & Associate Professor of Psychiatry/Psychology.
Joyce G. Small, M.D., Director of Research & Laboratories and Professor of Psychiatry.

2. Institution &

Address:

Larue D. Carter Memorial Hospital and Indiana University Medical Center,
1315 West Tenth Street, Indianapolis, Indiana 46202.

3. Short Title of Project:

Tobacco, reinforcers and clinical status.

4. Proposed Starting Date:

April 1, 1973

5. Anticipated Duration of this Specific Study:

One year.

6. Brief Description of Objectives or Specific Aims:

The purpose of this investigation is to examine in a systematic fashion clinical status, somatic treatment, cigarette smoking and adjustment to a ward's token economy. The two specific objectives are:

- (1) To divide the resident population of the token economy research ward into a group of smokers and a group of non-smokers, and to compare these two groups in terms of their response to the ongoing behavior modification treatment program which the ward features.
- (2) To examine changes in behavior on the ward and changes in smoking patterns along with observations relating to the patient's status during treatment with drugs for the underlying psychiatric problem as well as during those times when no drug therapy is ~~not~~ being employed.

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7. Give a Brief Statement of your Working Hypothesis:

On the basis of informal and preliminary observations we would predict that (cont')

8. Details of Experimental Design and Procedures: (Attach Separate Pages)

Patients will be divided into two groups, the group of approximately 30 smokers and a group of about 10 non-smokers. The former will be further divided and categorized in terms of the amount they smoke. A number of very well standardized, reliable observational techniques with which we have a great deal of experience will be used to rate the patients on a weekly basis. If changes are occurring, the frequency of ratings will be increased. These include:

- (1) Brief Psychiatric Rating Scale
- (2) Clinical Global and Improvement Scale
- (3) Nurses Observation Scale of Inpatient Evaluation
- (4) Treatment of Emergent Symptoms
- (5) Patient Personnel Data Inventory
- (6) Symptom Rating Scale

Scales 1 and 2 are instruments filled out by the ward psychiatrist; 3, 4, and 5 by the research nurse; and 6 is a subjective rating scale filled out by the patient.

In addition, observations and recordings are made on the research ward. These include a daily recording of work performance, personal grooming, keeping room clean, and performing the various ward duties which are assigned to the individual patients. Since the research ward is run as a token economy many of the privileges of the patients must be purchased and an accurate record is kept of these purchases. The privileges include cigarettes, a visit to the snack bar, coffee, a room to sleep in (cont')

9. Physical Facilities Available (Where Other than Administering Organization Indicate Geographical Location)

Larue D. Carter Memorial Hospital, where the research will be conducted, is an acute intensive care facility under the Mental Health Department of the State of Indiana.

It is the teaching and research facility admitting a wide variety of patients from throughout the state. One ward had been set aside and designated as the "research (cont')

10. Additional Requirements:

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Biographical sketches of all principal and professional personnel (append)

See the appended Curriculum Vitae.

12. List of publications: (Five most recent as pertinent) (append)

See Curriculum Vitae (cont')

13. Budget (1st year)

3.

A. Salaries (Personnel by names)

Professional

% time

Amount

Technical

Contracted clerical/typing services.

\$3600.00

Sub-Total

B. Consumable Supplies (list by categories)

Patient comforts -

1500.00

Observation and Test Forms -

150.00

1650.00

Sub-Total

C. Other Expenses (itemize)

IBM Card Punching and Computer Assistance -

450.00

Travel -

250.00

700.00

Sub-Total

D. Permanent Equipment (itemize)

E. Overhead (15% of A+B+C)

892.50

Total

\$6842.50

Estimated Future Requirements:

	Salaries	Consumable Suppl.	Other Expenses	Permanent Equip.	Overhead	Total
Year 2						
Year 3						

It is understood that the applicant and institutional officers in applying for a grant have read and found acceptable the Council's "Statement of Policy Containing Conditions and Terms Under Which Project Grants Are Made."

Signature

Director of Project

634-8401 Ex 318

Telephone

Signature

Business Officer of the Institution

Iver F. Small, M.D.

for D. F. Moore, M.D.

Telephone

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Other Sources of Financial Support

List financial support for research from all sources, including own institution, for this and/or related research projects.

Current

Title of Project

Source

Amount

Duration

The State of Indiana supports research efforts at

Larue D. Carter Memorial Hospital.

Pending

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7. cont'

patients who are smokers and for whom tobacco reinforcers are available, do better in the token economy of the research ward than patients for whom such reinforcers are not available. With respect to the correlations we are seeking, we expect that alterations in smoking behavior will be indicative of alterations in the patient's general status and will correlate with the various ratings that will be made of the patients.

8. cont'

as opposed to the open ward, movies outside of the hospital, etc.

The analysis of the data involves the construction of correlation matrices among these standardized observations and rating scales. This correlation matrix will be further examined by means of a Factor Analysis which will permit an assessment of the interrelations among all of these observations including that of tobacco use. A separate Factor Analysis will be conducted over the correlations for the group of patients who smoke to determine the influence of amount of tobacco consumption. It is estimated that it will require approximately 10 months to accumulate all the data and 2 months to analyze it.

9. cont'

ward". A token economy, behavior modification approach is currently utilized on this ward, and has been for more than three years. All of the nursing personnel on the ward are familiar with the concepts relating to token economies, often making important suggestions leading to alterations of individual behavior modification programs.

12. cont'

Milstein, V. and Small, J.G., Psychological correlates of 14 and 6 positive spikes, 6/sec spike-waves and small sharp spike transients. Clin. Electroenceph. 2:206-212, 1971.

Milstein, V., Small, J.G. and Small, I.F., The subtraction of serial sevens test in psychiatric patients. Arch. Gen. Psychiat., 26:439-441, 1972.

Milstein, V., Small, J.G., Gans, G. and Moore, J.E., Risk taking and CNV. Presented at the Amer. EEG Society, Houston, Texas, Oct. 1972.

Small, J.G., and Milstein, V. and Golay, S.J., Clinical EEG findings with covert drug abuse. Presented at the Amer. EEG Society, Houston, Texas, Oct. 1972.

Small, I.F., Milstein, V., Sharpley, P. and Small, J.G., A comparative study of mental illness. Presented at the Society for Neuroscience, Houston, Texas, 1972.

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CURRICULUM VITAE

Full Name Victor Milstein

Date of Birth **REDACTED**

Nationality

Address: Home

Office Larue D. Carter Memorial Hospital
1315 West Tenth Street
Indianapolis, Ind. 46202
(317) 634-8401 Ext. 318**REDACTED**EDUCATIONDEGREE YEAR CONFERREDBrooklyn College, Brooklyn, New York
City College of New York, New York
University of Oregon, Eugene, Oregon**REDACTED**Psychological Externship: Psychopathic Hospital 1952-53
University of Iowa
Iowa City, Iowa

Public Health Service Research Fellow of the N.I.N.D.B. 1959-61

Second Advanced Course in Electroencephalography,
Salzburg, Austria 1965PROFESSIONAL EXPERIENCE

Larue D. Carter Memorial Hospital, Indianapolis, Ind., Psychophysicologist	1970-present
Indiana Univ. Medical Center, Indianapolis, Ind., Assoc. Prof. Psychol. in Psychiatry	1970-present
Univ. of Oregon Medical School, Portland, Asst. Prof. Neurology	1966-1970
Oregon Regional Primate Research Center, Beaverton, Oregon Asst. Scientist (half time)	1963-66
Univ. of Oregon Medical School, Portland, Research Fellow in Neurology	1957-59 & 1961-66
Univ. of Oregon, Eugene, Oregon, Teaching Fellow in Psychology	1956-57
Univ. of Oregon, Eugene, Oregon, Research Asst. in Psychology	1955-56
Univ. of Iowa Hospital, Iowa City, Iowa, Psychologist	1953-54
Boro Hall Academy, Brooklyn, N.Y., Guidance Counselor	1951-52

ORGANIZATIONS**REDACTED**

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CURRICULUM VITAE

Name: SMALL, Joyce Graham

Date of Birth:

Place of Birth:

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Marital Status:

Citizenship:

Education: University of Saskatchewan B.A. (Great Distinction)
Biology and Chemistry

University of Manitoba

University of Michigan
Neurology

REDACTED

Internships and Residencies:

Winnipeg General Hospital, Rotating Internship, June 1, 1955 to May 31, 1956.

Ypsilanti State Hospital, Ypsilanti, Michigan, Resident in Psychiatry, 1956 to 1959.

Fellowships:

Teaching Fellow, Biochemistry, University of Manitoba, 1955 to 1956.

Hospital Positions:

Assistant Chief of Male Service, Ypsilanti State Hospital, 1958 to 1959.

Psychiatric Consultant to Crippled Children's Division, University of Oregon Medical School, 1960 to 1962.

Supervising Psychiatrist, Malcolm Bliss Mental Health Center, February to June, 1962.

Visiting Physician, St. Louis City Hospitals, July, 1962 to June, 1965.

Director of Outpatient Clinic and Consultation Services and Director of EEG Laboratory, Malcolm Bliss Mental Health Center, July, 1962 to March, 1964.

Clinical Director, Malcolm Bliss Mental Health Center, April, 1964 to June, 1965.

Clinical Director of Research and Laboratories, Larue D. Carter Memorial Hospital, June, 1965 -

Attending Staff, Veteran's Administration Hospital, Indianapolis, Indiana, July, 1965 - 1969.

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Teaching Positions:

Teaching Fellow (Biochemistry), University of Manitoba, 1955 to 1956.

Instructor in Psychiatry (EEG), Neuropsychiatric Institute, University of Michigan, 1959 to 1960.

Instructor in Psychiatry, University of Oregon Medical School, 1960 to 1961.

Research Associate, Department of Neurology, University of Oregon Medical School, 1960 to 1962.

Assistant Professor of Psychiatry, University of Oregon Medical School, 1961 to 1962.

Assistant Professor of Psychiatry, Washington University School of Medicine, 1962 to 1965.

Associate Professor of Psychiatry, Indiana University School of Medicine, 1965 to 1969.

Professor of Psychiatry, Indiana University School of Medicine, 1969 -

Membership in Societies:

REDACTED

Certifications:

Certified by American Board of Neurology and Psychiatry in Psychiatry, 1961.

Certificate in Clinical Electroencephalography, Board of Qualification of the American EEG Society, 1963.

Fellow of the American Psychiatric Association, 1966.

State Licenses:

Licentiate of the Medical Council of Canada, 1956
State of Michigan (by examination), 1957
State of Oregon (by examination), 1960
State of Missouri (by reciprocity), 1962
State of Indiana (by reciprocity), 1965

Offices and Appointments

Secretary-Treasurer - Central Association of Electroencephalographers 1967-68
President-Elect - Central Association of Electroencephalographers 1969
President - Central Association of Electroencephalographers 1970
Councilor - Central Association of Electroencephalographers 1971-72
Member - Scientific Program, Committee on American EEG Society Meeting,
Washington, D.C. - September, 1970
Member - American Board of Qualifications in Electroencephalography Inc. 1971-76
Chairman - Program and Local Arrangements - Central Association Electro-
encephalographers - Indianapolis Meeting - April, 1972.
Consultant - NIMH Workshop on Psychobiology of Depression, Williamsburg
April 1969
NIMH
Consultant -/Workshop on Psychobiology of Electroconvulsive Therapy - Puerto
Rico, April, 1972
Member - Clinical Psychopharmacology Research Review Committee of the National
Institute of Mental Health 1972-1976